

10/004-17

PTO SB 28A (6-95)

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1449A PTO		U.S. Department of Commerce		Complete if Known Application Number _____ Filing Date _____ First Named Inventor Coelho, et al. Group Art Unit _____ Examiner Name _____ Attorney Docket Number 31120-pa	
Rev. 10-95		Patent and Trademark Office			
LIST OF PRIOR ART CITED BY APPLICANT <i>(use as many sheets as necessary)</i>					
Sheet	1	of	8		

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
WAS	1	713,017		Pumphrey	11-04-1902	
	2	1,614,532		Mobley	01-18-1927	
	3	2,533,004		Ferry, et al.	12-05-1950	
	4	2,747,936		Wahlin	05-29-1956	
	5	3,179,107		Clark	04-20-1965	
	6	3,223,083		Cobey	12-14-1965	
	7	3,236,457		Kennedy, et al.	02-22-1966	
	8	3,269,389		Meurer, et al.	08-30-1966	
	9	3,416,737		Venus, Jr.	12-17-1968	
	10	3,467,096		Horn	09-16-1969	
	11	3,828,980		Creighton, et al.	08-13-1974	
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	13	3,945,574		Polnauer, deceased, et al.	03-23-1976	
	14	4,040,420		Speer	08-09-1977	
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	16	4,109,653		Kozam, et al.	08-29-1978	
	17	4,265,233		Sugitachi, et al.	05-05-1981	
	18	4,298,598		Schwarz, et al.	11-03-1981	
	19	4,359,049		Redl, et al.	11-16-1982	
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Examiner Initials	Cite No.	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Office	Number			
WAS	84	DE	25,913	Zdaril	02-12-1884	
	85	CH	259,254	Szent-Györgyi, et al.	06-01-1949	
	86	WIPO	WO 86/01814	Trustees Columbia Univ.	03-27-1986	
	87	WIPO	WO 88/02259	Weis-Fogh	04-07-1988	
WAS	88	WIPO	WO 88/03151	Univ. of Texas System	05-05-1988	

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LIST OF PRIOR ART CITED BY APPLICANT (use as many sheets as necessary)							
						Application Number	
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				First Named Inventor	Coelho, et al.		
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				Examiner Name			
Sheet	2	of	8	Attorney Docket Number	31120-pa		

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		Number	Kind Code, if known			
WAD	21	4,363,319		Altshuler	12-14-1982	—
	22	4,374,830		Schneider	02-22-1983	—
	23	4,377,572		Schwarz, et al.	03-22-1983	—
	24	4,414,976		Schwarz, et al.	11-15-1983	—
	25	4,427,650		Stroetmann	01-24-1984	—
	26	4,427,651		Stroetmann	01-24-1984	—
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	28	4,453,939		Zimmerman, et al.	06-12-1984	—
	29	4,627,879		Rose, et al.	12-09-1986	—
	30	4,631,055		Redl, et al.	12-23-1986	—
	31	4,655,211		Sakamoto, et al.	04-07-1987	—
	32	4,696,812		Silbering, et al.	09-29-1987	—
	33	4,714,457		Alterbaum	12-22-1987	—
	34	4,734,261		Koizumi, et al.	03-29-1988	—
	35	4,735,616		Eibl, et al.	04-05-1988	—
	36	4,752,466		Saferstein, et al.	06-21-1988	—
	37	4,767,416		Wolf, et al.	08-30-1988	—
	38	4,826,048		Skorka, et al.	05-02-1989	—
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	40	4,874,368		Miller, et al.	10-17-1989	—

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		Office	Number			
WAD	89	SU	1,527,261 A1	—	12-07-1989	—
	90	WIPO	WO 91/09641	Cryolife, Inc.	07-11-1991	—
	91	EP	0 443 724 A1	Baxter International, Inc.	08-28-1991	—
	92	EP	0 505 604 A1	Warner-Lambert Co.	09-30-1992	—
WAD	93	EP	0 534 178 A2	Octapharma AG	03-31-1993	—

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Complete if Known**LIST OF PRIOR ART CITED BY APPLICANT**

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Sheet **3** of **8** Attorney Docket Number **31120-pa**

U.S. PATENT DOCUMENTS

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		Number	Kind Code, if known			
WHD	41	4,902,281		Avoy	02-20-1990	///
	42	4,909,251		Seelich	03-20-1990	///
	43	4,923,815		Tanaka, et al.	05-08-1990	///
	44	4,965,203		Silbering, et al.	10-23-1990	///
	45	4,978,336		Capozzi, et al.	12-18-1990	///
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	47	4,987,336		L'Hermite, et al.	01-22-1991	///
	48	5,037,390		Raines, et al.	08-06-1991	///
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	51	5,104,375		Wolf, et al.	04-14-1992	///
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	53	5,130,244		Nishimaki, et al.	07-14-1992	///
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	56	5,165,938		Knighton	11-24-1992	///
	57	5,185,001		Galanakis	02-09-1993	///
	58	5,219,328		Morse, et al.	06-15-1993	///
	59	5,232,024		Williams	08-03-1993	///
WHD	60	5,290,259		Fischer	03-01-1994	///

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		Office	Number			
WHD	94	WIPO	WO 93/19805	Cryolife, Inc.	10-14-1993	///
	95	WIPO	WO 94/00566	Cederholm-Williams, et al.	01-06-1994	///
	96	EP	0 592 242 A1	E.R. Squibb & Sons	04-13-1994	///
	97	WIPO	WO 96/17871	Plasmaseal Corporation	06-13-1996	///
WHD	98	WIPO	WO 96/31245	Hamilton Civic Hospitals	10-10-1996	///

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1449A PTO Rev. 10-95		U.S. Department of Commerce Patent and Trademark Office		Complete if Known	
LIST OF PRIOR ART CITED BY APPLICANT (use as many sheets as necessary)				Application Number	
				Filing Date	
				First Named Inventor Coelho, et al.	
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Sheet	4	of	8	Attorney Docket Number	31120-pa

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
MB	61	5,290,552		Sierra, et al.	03-01-1994	/
	62	5,304,372		Michalski, et al.	04-19-1994	
	63	5,328,462		Fischer	07-12-1994	
	64	5,368,563		Lonneman, et al.	11-29-1994	
	65	5,393,666		Linnau	02-28-1995	
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	67	5,411,885		Marx	05-02-1995	
	68	5,443,959		Kikuchi, et al.	08-22-1995	
	69	5,460,945		Springer, et al.	10-24-1995	
	70	5,474,540		Miller, et al.	12-12-1995	
	71	5,474,770		Broly, et al.	12-12-1995	
	72	5,480,378		Weis-Fogh, et al.	01-02-1996	
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	76	5,578,459		Gordon, et al.	11-26-1996	
	77	5,585,007		Antanavich, et al.	12-17-1996	
	78	5,605,887		Pines, et al.	02-25-1997	
	79	5,614,204		Cochrum	03-25-1997	
MB	80	5,631,019		Marx	05-20-1997	

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Examiner Initials	Cite No.	Office*		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
MB	99	WIPO	WO 99/45938	Sierra, David H.	09-16-1999	/

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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

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LIST OF PRIOR ART CITED BY APPLICANT (use as many sheets as necessary)				Application Number	
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, country where published, source	
WAB	100	Fenton, J., et al., "Human Thrombins", Chemistry & Biology of Thrombin, pp. 43-70. <i>No date provided.</i>	
WAB	101	Rosenberg, R.D., et al., "Bovine Thrombin: Constant Specific Activity Products From Single Animals", Fed. Proc., p. 321, Abstract No. 361. <i>No date provided.</i>	
WAB	102	Quick, A.J., et al., "Production Of Thrombin From Precipitate Obtained By Acidification Of Diluted Plasma", pp. 114-118. <i>No date provided.</i>	
WAB	103	Eagle, H., "Studies On Blood Coagulation", pp. 531-545, 1934.	
WAB	104	Mann, K.G., et al., "The Molecular Weights Of Bovine Thrombin And Its Primary Autolysis Products", pp. 6555-6557, 1969.	
WAB	105	Mann, K.G., et al., "Multiple Active Forms Of Thrombin", The Journal of Biological Chemistry, Vol. 246(19), pp. 5994-6001, 1971.	
WAB	106	Martin, M., et al., "Thrombolysis In Patients With Chronic Arterial Occlusions", Thrombolytic Therapy, Vol. 47, pp. 235-241, 1971.	
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WAB	108	Andrianova, et al., "An Accessible Method Of Simultaneous Production Of Fibrinogen And Thrombin From Blood", pp. 648-650, 1975. (Plus English translation).	
WAB	109	Georgi, M., et al., "Occlusion Of The Renal Artery By Intra-Arterial Injection Of Thrombin In A Case Of Inoperable Renal Tumor", Deutsche Medizinische Wochenschrift, Vol. 100(47), pp. 2428-2429, 1975. (Plus English translation).	
WAB	110	Lundblad, R.L., et al., "Preparation And Partial Characterization Of Two Forms Of Bovine Thrombin", Biochemical and Biophysical Research Communications, Vol. 66(2), pp. 482-489, 1975.	
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Sheet	7	of	8	Attorney Docket Number 31120-pa	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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WLB	112	Fenton, J., et al., "Human Thrombins: Production, Evaluation, And Properties Of α -Thrombin", The Journal of Biological Chemistry, Vol. 252(11), pp. 3587-3598, 1977.	
	113	Nordenman, B., et al., "Purification Of Thrombin By Affinity Chromatography On Immobilized Heparin", Thrombosis Research, Vol. 11, pp. 799-808, 1977.	
	114	Nowotny, R., et al., "Mechanical Properties Of Fibrinogen-Adhesive Material", Biomaterials 1980, Vol. 3, pp. 677-682, 1982.	
	115	Kotelba-Witkowska, B., et al., "Cryopreservation Of Platelet Concentrates Using Glycerol-Glucose", Transfusion, Vol. 22(2), pp. 121-124, 1982.	
	116	Redl, H., et al., "Fibrin Sealant-Antibiotic Mixture -- Stability And Elution Behavior", Fibrinkleber Orthop. Traumatol. Orthop. Symp., Vol. 4, pp. 178-181, 1982. (Plus English translation).	
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	118	Gestring, G., et al., "Autologous Fibrinogen For Tissue-Adhesion, Hemostasis And Embolization", Vascular Surgery, Vol. 17, pp. 294-304, 1983.	
	119	Wolf, G., "The Concentrated Autologous Tissue Glue", Archives of Oto-Rhino-Laryngology, Vol. 237, pp. 279-283, 1983.	
	120	Tsvetkov, T.S., et al., "A Method For Preparation Of Dry Thrombin For Topical Application", Cryobiology, Vol. 21(6), pp. 661-663, 1984.	
	121	Yu, X.J., et al., "Affinity Chromatography Of Thrombin On Modified Polystyrene Resins", Journal of Chromatography, Vol. 376, pp. 429-435, 1986.	
	122	Fischer, A.M., et al., "Thrombin Purification By One-Step Preparative Affinity Chromatography On Modified Polystyrenes", Journal of Chromatography, Vol. 363(1), pp. 95-100, 1986.	
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Sheet	8 of	8	Attorney Docket Number	31120-pa	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No	Include name of the author in CAPITAL LETTERS, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, country where published, source.	
WJ	124	Fenton, J.W., "Regulation Of Thrombin Generation And Functions", Seminars in Thrombosis and Hemostasis, Vol. 14(3), pp. 234-240, 1988.	
↑	125	Awano, K., et al., "Role Of Serotonin, Histamine, And Thromboxane A2 In Platelet-Induced Contractions Of Coronary Arteries And Aortae From Rabbits", Journal Of Cardiovascular Pharmacology, Vol. 13(5), pp. 781-792, 1989.	
↑	126	Mulvihill, J., et al., "Thrombin Stimulated Platelet Accumulation On Protein Coated Glass Capillaries: Role Of Adhesive Platelet a-Granule Proteins", Thrombosis and Haemostasis, Vol. 62(3), pp. 989-995, 1989.	
↑	127	Suzuki, S., et al., "A Study On The Properties Of Commercial Thrombin Preparations", Thrombosis Research, Vol. 53(3), pp. 271-277, 1989.	
↑	128	Ronfard, V., et al., "Use of Human Keratinocytes Cultured On Fibrin Glue In The Treatment Of Burn Wounds", Burns, Vol. 17(3), pp. 181-184, 1991.	
↑	129	Brennan, M., "Fibrin Glue", Blood Reviews, Vol. 5, pp. 240-244, 1991.	
↑	130	DePalma, L., et al., "The Preparation Of Fibrinogen Concentrate For Use As Fibrin Glue By Four Different Methods", Transfusion, Vol. 33(9), pp. 717-720, 1993.	
↑	131	McCarthy, P., "Fibrin Glue In Cardiothoracic Surgery", Transfusion Medicine Reviews, Vol. 7(3), pp. 173-179, 1993.	
↑	132	Cederholm-Williams, S., "Benefits Of Adjuvant Fibrin Glue In Skin Grafting", The Medical Journal of Australia, Vol. 161(9), p. 575, 1994.	
↑	133	Cederholm-Williams, S., "Autologous Fibrin Sealants Are Not Yet Available", The Lancet, Vol. 344, p. 336, 1994.	
↓	134	Wiegand, D.A., et al., "Assessment Of Cryoprecipitate-Thrombin Solution for Dural Repair", Head & Neck, pp. 569-573, 1994.	
WJ	135	Szczepanski, et al., "Thrombin Clotting Time and Fibrin Polymerization in Liver Cirrhosis", Materia Medica Polona, Vol. 26, No. 3, pages 87-90, 1994	

Examiner Signature WJ A	Date Considered	9/7/04
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